

# All-round flashing lights 30 Joules PMF 2030



- secure 360° alarm for large distances (indoors or outdoors)
- extremely reliable and durable due to the use of state-of-the-art electronic components – no replacement of mechanical or electrical wearing parts necessary
- reliable performance even under the toughest working and production conditions, e.g. possible voltage fluctuations, high ambient temperatures up to + 55 °C, high relative humidity up to 90 %
- mounting-friendly; large variety of mounting methods
- bracket-mounting using solid stainless steel bracket or direct mounting with enclosed flat seal
- maximum flash energy 30 Joules
- good light bundling is achieved in the horizontal plane thanks to the lens in the form of a fresnel lens and the special xenon flash tube
- very good perceptibility over great distances; low power consumption



Range as per EN 54



Protection system



Operating temperature

Electrical data		PMF 2030			
Rated voltage		230 V AC			
Rated frequency		50 Hz / 60 Hz			
Operating range		195 V – 253 V			
Nominal current consumption	at 30 J	1 Hz: 450 mA	0.75 Hz: 380 mA	0.5 Hz: 310 mA	0.1 Hz: 150 mA
	at 20 J	1 Hz: 400 mA	0.75 Hz: 340 mA	0.5 Hz: 290 mA	0.1 Hz: 140 mA

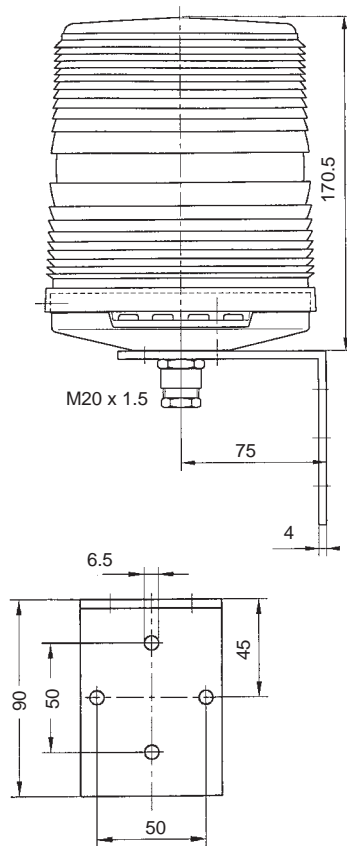
Mechanical data		PMF 2030	
Light source		xenon flash tube	
Flash rate		1 Hz = 60 flashes/min., see flash frequency table	
Flash energy		max. 30 Joules, switchable to 20 Joules	
Light intensity (DIN 5037)	clear lens	1500 cd	
Lens colours		clear, amber, red, green, blue	
Lens type		lens with fresnel characteristic	
Beam angle	vertical	approx. 16°	
	horizontal	360°	
Operating temperature		- 30 °C ... + 55 °C	
Storage temperature		- 40 °C ... + 70 °C	
Relative humidity		90 %	
Protection system according to EN 60529		IP 55 (vertical mounting)	
Duty cycle		100 %	
Service life of the flash tube		light emission still 70 % after 8,000,000 flashes	
Material	lens	polycarbonate (PC)	
	housing	bracket mounting: polycarbonate (PC) / direct mounting: acrylonitrile butadiene styrene (ABS)	
Cable entry for bracket mounting		M20 x 1.5	
Connecting terminals		single wire 0.5 = 2.5 mm <sup>2</sup> , fine wire 0.5 = 1.5 mm <sup>2</sup> , with cable end sleeves	
Weight	bracket mounting	1.25 kg	
	direct mounting	0.75 kg	

## Flash frequencies

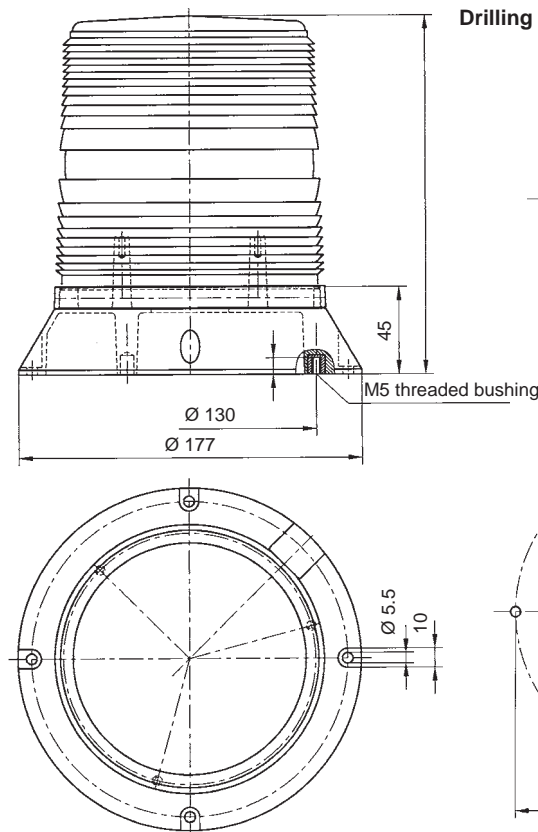
S1				Flash energy	Flash frequency	S1				Flash energy	Flash frequency
1	2	3	4			1	2	3	4		
OFF	OFF	OFF	OFF	30 Joules	1 Hz	OFF	OFF	ON	OFF	20 Joules	1 Hz
ON	OFF	OFF	OFF		0.75 Hz	ON	OFF	ON	OFF		0.75 Hz
OFF	ON	OFF	OFF		0.5 Hz	OFF	ON	ON	OFF		0.5 Hz
ON	ON	OFF	OFF		0.1 Hz	ON	ON	ON	OFF		0.1 Hz

**Dimensions**

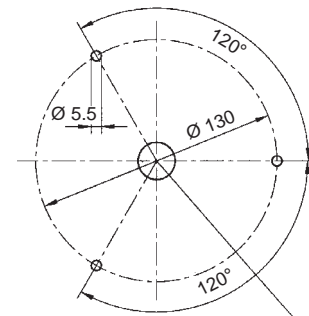
**Bracket mounting**



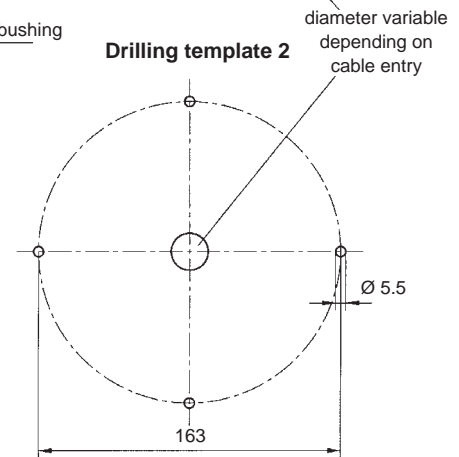
**Direct mounting**



**Drilling template 1 (for M5 threaded bushing)**



**Drilling template 2**



Two different drilling templates are available for fixing the light (direct mounting). M5 x 8 threaded bushes are set into the base of the light for fixing according to drilling template 1. Drilling template 2 allows the light to be fixed using 4 through bolts or similar from above.

**Ordering details**

Article numbers		PMF 2030 direct mounting	PMF 2030 bracket mounting
Lens colour	Rated voltage	230 V AC	230 V AC
amber		210 10 10 4 000	210 10 10 4 010
red		210 10 10 5 000	210 10 10 5 010

Article numbers for other colours and voltages on request

**Options / accessories**



**Conformity to standards**

The visual characteristics of flashing lights conform to the European standard DIN EN 842: 'Machine safety – visual alarm signals'. Requirements contained in the DIN EN 981 standard: 'Machine safety – system of acoustic and visual alarm and information signals', can be fulfilled. The colours 'red' for the emergency signal and 'yellow' for the warning signal conform to the requirements of IEC 73 / DIN EN 60073 / VDE 0199: 'Coding of display devices and control elements using colours and supplementary means'.

References to visual alarm devices can be found in the following standards:  
 EN 60825-1 Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837  
 DIN EN 54 Fire alarm systems  
 DIN 54113-2 Radiation protection regulations for the technical operation of X-ray equipment up to 500 kV